

JOHN GLENN HIGH SCHOOL

**COURSE OFFERINGS/ COURSE
DESCRIPTIONS**

2018 – 2019

VPAA - Visual Performing and Applied Arts

*Art, Band, Choir, Computers, Theatre/Film, and Speech/Public Speaking

ART

The JGHS Visual Art Department has adopted a choice-based instructional model for all courses. Students will be self-directed in their studio work; completing a portfolio of work that shows mastery of learning objectives specific to each courses.

“Choice-based art education regards students as artists and offers them real choices for responding to their own ideas and interests through the making of art. Choice-based art education supports multiple modes of learning and assessment for the diverse needs of students.”

- © 2016 Teaching for Artistic Behavior.

Please visit the following website(s) for additional information about Choice-Based Instruction/Teaching for Artistic Behavior (TAB)

<http://teachingforartisticbehavior.org>

Foundations of Art

2 Semesters

Open to Grades 9-12

This course is designed to introduce the basic terminology, skills and aesthetic approaches used to create two-dimensional art. This course emphasizes intuitive and creative thinking. The concepts studied will stress the elements and principles of design utilizing two-dimensional media.

Students will:

1. Understand and employ the procedures in producing a quality work of art.
2. Be able to define the elements and principles of design.
3. Use a variety of 2D media (drawing, painting) to create art.
4. Practice proper care and storage of materials and equipment. JGHS Prerequisite: None

Note: Students may choose to take Foundations for multiple years, if they would like to enroll in an art course but prefer not to apply for Studio Art, which is an advanced course.

Prerequisite: None

C+S I (Ceramics and Sculpture)

2 Semesters

Open to Grades 10-12

This is an introductory course in ceramics and sculpture. Student will master basic hand building ceramic techniques. Students will create decorative, functional, and sculptural works of art.

Students will:

1. Understand and employ the procedures in producing a quality work of art.
2. Be able to define the elements and principles of design.
3. Use a variety of 3D media (ceramic/paper mache/wire) to create art.
4. Practice proper care and storage of materials and equipment.

Note: Students may choose to take C+S I for multiple years, if they would like to enroll in an art course but prefer not to apply for Studio Art, which is an advanced course.

Prerequisite: None

Studio Art: 2D Concentration

2 Semesters

Open to Grades 10-12

This course is designed for advanced art students who are strongly motivated to increase their knowledge of the arts for career development, personal satisfaction, or both. Students will study advanced techniques and work with a variety of two dimensional media. Emphasis will be placed on composition, craftsmanship, design, and artistic voice.

Students will:

1. Understand and employ the procedures in producing a quality work of art.
2. Student art will be informed by the elements and principles of design.
3. Use a variety of advanced 2D media to create art.
4. Practice proper care and storage of materials and equipment.

Prerequisite: Successful completion of Foundations with a grade of a B or higher, portfolio review, and teacher approval. Transfer students must submit a portfolio for teacher review for admission into this course.

Studio Art: 3D Concentration

2 Semesters

Open to Grades 10-12

This course is designed for advanced art students who are strongly motivated to increase their knowledge of the arts for career development, personal satisfaction, or both. Students will

study advanced techniques and work with a variety of three-dimensional media. Emphasis will be placed on composition, craftsmanship, design, and artistic voice.

Students will:

1. Understand and employ the procedures in producing a quality work of art.
2. Student art will be informed by the elements and principles of design.
3. Use a variety of advanced 3D media to create art.
4. Practice proper care and storage of materials and equipment.

Prerequisite: Successful completion C+S I (Ceramics and Sculpture I) with a grade of a B or higher, portfolio review, and teacher approval. Transfer students must submit a portfolio for teacher review for admission into this course.

WorkShop

1-2 semesters/ 1-2 hours consecutive TBD

Open to Grades 11-12

Available Concentrations: 2D, 3-D, or 2D/3D

Teacher will facilitate student led-learning. Students may work with any media within their concentration. Students will propose projects for approval. Students will research the skills necessary to complete projects. Students may choose to use the materials inventoried in the classroom or purchase their own materials for projects. Teacher will conference with student, support, and assess student learning. Students in 3-D concentration will be encouraged to work on the pottery wheel.

Notes: Workshop students may enroll in Workshop for up to 2 class periods. (Any hour(s) that work with their class schedule) Additionally, Workshop students are required to be enrolled in Workshop Flex offered during the Flex Block.

Prerequisite: Successful completion Studio Art, with a grade of a B or higher, portfolio review, and teacher approval. Transfer students must submit a portfolio for teacher review for admission into this course

AP Art

Open to Grades 11-12

2 Semesters

Grading Scale: 5 point Ap scale

Grading Note: AP Art Students will be eligible for the weighted 5 point grading scale. (See student handbook AP Policy)

The AP Program offers three studio art courses and portfolios aligned with the College Board curriculum: Two-Dimensional Design, Three-Dimensional Design, and Drawing. The AP Studio Art portfolios are designed for students who are seriously interested in the practical experience of art. Students submit portfolios for evaluation at the end of the school year. The AP Studio Art Program consists of three portfolios — 2-D Design, 3-D Design and Drawing — corresponding to the most common college foundation courses. Students may choose to submit any or all of the Drawing, Two-Dimensional Design, or Three-Dimensional design portfolios. AP Studio Art students create a portfolio of work to demonstrate the artistic skills and ideas they have developed, refined, and applied over the course of the year to produce visual compositions.

Notes: AP Studio Art students may enroll in AP Art for up to 3 class periods. (Any hour(s) that work with their class schedule.) It is strongly recommended that students take AP Studio Art for 2 class periods. **Additionally, AP Studio Art students are required to be enrolled in AP Studio Flex offered during the Flex Block.** Students will receive an adjusted grade based on a 5 point scale for only one section of AP Studio Art.

Prerequisite: Successful completion Studio Art, with a grade of a B or higher, portfolio review, and/or teacher approval. Transfer students must submit a portfolio for teacher review for admission into this course. In accordance with College Board policy, students may still enroll in AP Studio Art even if the student is not recommend for the AP Studio Art program. If this situation occurs, the student and guardian will be asked to sign a consent form prior to enrollment.

BAND

Concert Band

Open to Grades 9-12

2 Semesters

The purpose of this class is to provide a far reaching educational experience in the field of instrumental music. The goals are to make the band program the best it can be in performance achievement, musical knowledge, musical and performance exposure, and to develop intrinsic values of self-discipline, pride, respect and cooperation. The ultimate goal of study is to develop a lifelong appreciation for music. Student should consider band a four year commitment and plan accordingly.

Class Activities/Responsibilities:

All performances and extra rehearsals are required.

Other responsibilities include attending any trip that occurs and pre-school marching band camp. The Marching Band performs at all home football games and St. Patrick's Day Parade.

The Concert Band performs a minimum of two concerts during the year, usually in December and May and participates in District and State Festivals, when qualified, plus graduation.

CHOIR

John Glenn Singers

Open to Grades 9-12

2 Semesters

John Glenn Singers is a beginning vocal ensemble comprised of 25-35 students who specialize in two to three part primary choral music of all types. This ensemble is comprised of both male and female students. This ensemble is required for all incoming freshmen and first time choral students. Students of this ensemble receive training in basic music theory, sight-singing, and proper vocal technique. An audition is not required for this ensemble. This Choir holds required 3 performances each year. For the fall semester the John Glenn Singers perform a seasonal concert in December. During the spring semester the John Glenn Singers perform at District Festival in March along with a spring concert in May. All performances and rehearsals are required for credit in this course.

Treble Ensemble

Open to Grades 9-12

2 Semesters

Treble Ensemble is an auditioned chorus for 25-40 women's voices. This ensemble specializes in three to four part primary choral music of all types. Acceptance into this ensemble requires credit in John Glenn Singers, or previous choral experience along with an audition. Students of this ensemble receive training in basic music theory, sight-singing, and proper vocal technique. This Choir holds required 3 performances each year. For the fall semester the Treble Ensemble performs a seasonal concert in December. During the spring semester the Treble Ensemble performs at District Festival in March along with a spring concert in May. Traveling performances are possible with this ensemble. All performances and rehearsals are required for credit in this course.

Varsity Choir

Open to Grades 9-12

2 Semesters

Varsity Choir is an auditioned chorus for 16-30 men's and women's voices. This ensemble specializes in four part intermediate to advanced choral music of all types. Acceptance into this ensemble requires previous choral/vocal experience and an audition. Students of this ensemble receive training in basic/intermediate music theory, sight singing, and proper vocal technique. This Choir holds required 3 performances each year. For the fall semester the Varsity Choir performs a seasonal concert in December. During the spring semester the Varsity Choir performs at District Festival in March along with a spring concert in May.

Traveling performances are possible with this ensemble. All performances and rehearsals are required for credit in this course.

TECHNOLOGY

Introduction to Coding and Video Game Design

Grades 9-12

1 Semester

This course is designed to give students experience in computer science. Students will create and develop computer programs, apps and video games through a variety of programming software applications.

Students will:

1. Work on teamwork and problem solving
2. Utilize web based applications
3. Utilize object-oriented programming software
4. Utilize software applications

Video Design and Graphic Arts Publication

Open to Grades 9-12

1 Semester

This is a semester course that is designed to be broken into different modules in order to give students experience in a variety of multimedia activities.

These modules will include:

1. Photography and Photo Editing
2. Video Editing and Video Broadcasting
3. Journalism and Publication
4. Podcasting and Audio Announcements

Prerequisite: None

AP Computer Science Principles (AP CSP)

Open to Grades 10 - 12

2 Semesters

Computer Science is everywhere, from our smartphones and video games to music, medicine, and much more. AP Computer Science Principles (AP CSP) can help you understand how computing and technology influence the world around you. Learn how to creatively address real-world issues while using the same tools and processes that artists, writers, computer scientists, and engineers use to bring ideas to life. AP® Computer Science Principles Code.org's Computer Science Principles (CSP) curriculum

is a full-year, rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing.

Prerequisite: Completion of Algebra I with a C or higher

Yearbook

Open to Grades 10-12

2 Semesters

Students will learn a variety of skills in relation to publishing a yearbook as well as photo editing skills to improve the overall appearance of the photos for the yearbook. This is a unique opportunity that helps capture the history of each school year in order for individuals to enjoy for many years to come.

Students will:

1. Learn photography skills to capture dynamic photos that capture the history of the school.
2. Use a variety of photo editing skills to improve the appearance of photos.
3. Utilize design skills to create yearbook spreads.
4. Utilize journalism skills to write captions and body copy.
5. Be involved in merchandising, advertising and sales in order to help positively promote the yearbook.

Prerequisite: Permission of teacher only

SPEECH/THEATRE/FILM

Speech

Open to Grades 9 - 12

1 Semester

Introductory Speech is a course for students who want to improve their family, community and workplace communications skills, by learning to think clearly and express themselves effectively in people to people situations and before an audience. The Speech class prepares students for college and their careers by providing opportunities to increase their intrapersonal/interpersonal, public speaking, oral interpretations and group discussion skills.

The student will have the opportunity to develop strategies and knowledge to: Gain self-confidence in person to person situations; demonstrate eagerness to speak and present in public situations; develop the skills to research, write, rehearse, present, and accept criticism in public speaking situations; select, analyze, rehearse literary works for

presentation situations; and organize research, analyze, and select appropriate language on a specified topic to be presented in group discussion.

Prerequisite: None

Public Speaking

Open to Grades 9 - 12

1 Semester

Public Speaking is a class designed to guide the student speaker through the research, creation and presentation of spoken presentations. Students will be provided opportunities to increase their Intrapersonal and Interpersonal communication, public speaking and oral interpretation skills through analysis, practical experience, participation, and performances. The class introduces the beginning speech student to a study of poise, use of body and voice, interpersonal communication, public speaking and the oral interpretation of literature.

Prerequisite: None

Theatre

Open to Grades 9-12

1 - 2 Semesters

An introduction to Theatre, Oral Interpretation and Public Speaking for beginners. The class focuses upon the literary analysis of play scripts, speech and creative writing, theatre history, technical theatre, and performing skills for the theatre, oral interpretation, and public speaking. This class is recommended for any student who enjoys performing and working in all production aspects of theatre.

Film Literature

Open to Grades 9-12

2 Semesters

This class considers the role of film as a form of literature. Students discuss common life, literature and film such as parent-child relationship, prejudice, and friendship. Students will approach films critically through literary, dramatic, cinematic analysis and image/word inclusion projects. Students will further their study of film by delving into film genres such as: documentary, foreign films, historical fiction, science fiction, etc. There is also an extensive study of careers and the production aspects of film. This class is recommended for any student who enjoys viewing, analyzing and responding to films.

LANGUAGE ARTS

Academic English 9

Open to Grade 9

2 Semesters

This freshman level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for Academic English 10 and beyond. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics in both formal and informal writing which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities.

Prerequisite: None

This course is aligned with the Common Core as determined by the state of Michigan.

Honors English 9

Open to Grade 9

2 Semesters

This freshman level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for Honors English 10 and beyond. The development of deeper reading comprehension and critical analysis is stressed. More sophisticated writing skills are encouraged and the practical use of grammar and mechanics, in both formal and informal writing, are practiced in various assignments. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities. Students read excerpts from classic and modern day titles: plays, short stories, poetry, and novels. This class rigorously challenges students' reading, writing, communication, and analytical skills; it is designed for the above-average English student, who is capable of handling an intense workload and is college bound.

Academic English 10

Open to Grade 10

2 Semesters

This sophomore level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for Academic English 11 and beyond. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics in both formal and informal writing which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities.

Prerequisite: Successful completion of Academic English 9

This course is aligned with the Common Core as determined by the state of Michigan.

Honors English 10

Open to Grade 10

2 Semesters

This sophomore level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for Honors English 11 and beyond. The development of deeper reading comprehension and critical analysis is stressed. More sophisticated writing skills are encouraged and the practical use of grammar and mechanics, in both formal and informal writing, are practiced in various assignments. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student centered activities. Students read excerpts from classic and modern day titles: plays, short stories, poetry, and novels. This class rigorously challenges students' reading, writing, communication, and analytical skills; it is designed for the above average English student, who is capable of handling an intense workload and is college bound.

Prerequisite: Students must maintain a B- or better in English at the 9th grade level to be considered for Honors 10. A writing sample and teacher recommendations may be used to determine placement.

This course is aligned with the Common Core as determined by the state of Michigan.

Academic English 11

Open to Grade 11

2 Semesters

This junior level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for Academic English 12 and beyond. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics in both formal and informal writing which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities.

Prerequisite: Successful completion of Academic English 10

This course is aligned with the Common Core as determined by the state of Michigan.

Honors English 11

Open to Grade 11

2 Semesters

This junior level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare them for senior level English and beyond. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics, in both formal and informal writing, which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student centered activities. Students read excerpts from canonical pieces, plays, short stories, poetry, and novels. This class rigorously challenges students' reading, writing, communication, and analytical skills; it is designed for the above average English student, who is capable of handling an intense workload and is college bound.

Prerequisite: Students must demonstrate a strong understanding of English in Academic English 10, earning a B- or better. A writing sample and teacher recommendations may also be used to determine placement.

This course is aligned with the Common Core as determined by the state of Michigan.

Academic English 12

Open to Grade 12

2 Semesters

This senior level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for life after graduation. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics in both formal and informal writing which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities.

Prerequisite: Successful completion of Academic English 11

This course is aligned with the Common Core as determined by the state of Michigan.

AP Literature & Composition

Open to Grade 12

2 Semesters

The Advanced Placement Literature and Composition course is designed to replace a college/university level course. As such, it will mirror what an undergraduate level English class would entail through its rigorous workload. Students will be reading, analyzing, writing and discussing on a daily basis, and learning to formulate well-developed thoughts and essays, as well as working on analysis skills. Students will also be expected to participate in

class discussions, to aid with deeper understanding and idea development. Students will grow as a reader, writer, and oral communicator during the course of the school year.

Prerequisite: Students must demonstrate a strong understanding of English in Honors English 11 or Academic English 11. A writing sample and teacher recommendations are also used to determine placement.

This course is aligned with the ELA Common Core Standards as determined by the state of Michigan.

Young Adult Literature

Open to Grades 11 and 12

2 Semesters

Students are introduced to a variety of young adult topics and genres. This semester includes topics such as abuse, depression, bullying, teen pregnancy and capital punishment with genres of fantasy fiction, fiction, and nonfiction. This class focuses primarily on reading, analyzing, and discussing the topics read in class. While these themes are controversial in nature, they are books meant and designed for young adults that increase the desire to read. This class is recommended for any student who enjoys reading.

This course is aligned with the ELA Common Core Standards as determined by the state of Michigan.

WORLD LANGUAGE

French 1

Open to Grades 9 -12

2 Semesters

In French 1, students will be introduced to the French language, along with vocabulary and basic grammar where they will achieve a beginning level of proficiency in speaking, reading, writing, and listening. Culture, traditions, and learning about the people of France are a major part of this course. French foods and songs, along with educational games and activities are an integral part of the curriculum that help to enhance culture, language study, and retention.

French 2

Open to Grades 9 -12

2 Semesters

This course is a continuation of French I. Students will continue their French language study of vocabulary and basic grammar where they will continue to build their level of proficiency in speaking, reading, writing, and listening. Culture, traditions, and learning about the people of France and the Francophone World are a major part of this course. An extensive use of French will be utilized throughout classroom activities, along with an introduction to

French literature. French foods and songs, along with educational games and activities are an integral part of the curriculum that help to enhance culture, language study, and retention.

Prerequisite: French 1 or recommendation of teacher

French 3/4

Open to Grades 9 -12

2 Semesters

French III/IV students will continue their French language study of vocabulary and grammar as they continue to build their level of oral and written proficiency from the novice towards the intermediate level where they can create with language, participate in progressively more challenging conversations, and communicate successfully in basic survival situations. French III/IV will review previously learned material and build upon it. New grammar topics will include expansion in present and past tenses, along with future, imperfect, and conditional tenses. Culture units will be incorporated on topics of art, castles, history, and contemporary France. An extensive use of French will be utilized throughout classroom activities, along with an introduction to French literature. French foods and songs, along with educational games and activities are an integral part of the curriculum that helps to enhance culture, language study, and retention.

Prerequisite: French 2 or recommendation of teacher

Spanish 1

Open to Grades 9 -12

2 Semesters

In Spanish 1, students achieve a beginning level proficiency for the language through the meaning, usage, and pronunciation of vocabulary and grammar. To attain this proficiency, students participate in various listening, speaking, reading, and writing activities. The language is presented within the context of contemporary Spanish language and culture. Spanish foods and songs, along with educational games and activities, are an internal part of the curriculum that helps to enhance culture and language study and retention.

Spanish 2

Open to Grades 9 -12

2 Semesters

This course is a continuation of Spanish 1; however, more emphasis is placed on speaking, reading, and writing. By the end of this course, the student is able to initiate and direct a conversation on familiar topics and has an increased knowledge of the cultural aspects of various Spanish-speaking countries. Spanish foods and songs, along with learning games and fun activities, are an integral part of the curriculum that helps to enhance culture and language study and retention.

Prerequisite: Spanish 1 or recommendation of teacher

Spanish 3/4

Open to Grades 10-12

2 Semesters

The purpose of this course is to bring students from the novice level of and written proficiency to the intermediate level where they can create with language, participate in progressively more challenging conversations and communicate successfully in basic survival situations. The class is conducted as much as possible in Spanish. Students familiarize themselves with the target cultures' civilizations and literature. Students are required to give presentations in Spanish and are expected to speak Spanish as much as their ability allows during class period. Spanish foods and songs, along with learning games and fun activities, are an integral part of the curriculum that helps to enhance culture and language study and retention.

Prerequisite: Spanish 2 or recommendation of teacher

Survey of Spanish

Open to Grades 9 -12

2 Semesters

In Survey Spanish, students achieve a beginning level proficiency in the language through the meaning, usage, and pronunciation of vocabulary and grammar. To attain this proficiency, students participate in various listening, speaking, reading, and writing activities at a more leisurely pace than Spanish 1. The language is presented within the context of contemporary Spanish language and culture. Spanish foods and songs, along with educational games and activities, are an internal part of the curriculum that help to enhance culture, language study, and retention.

Prerequisite: Recommendation of student's counselor

LIFE SKILLS

L.S. Basic English

Open to Grade 9

2 Semesters

Textbooks: SRA Corrective Reading Level C and Select Novels

This literature-based course includes listening, reading, writing, and speaking skills. Corrective Reading is a complete core program that uses the Direct Instruction method to assist students in mastering essential decoding and comprehension skills while reading a variety of narrative and expository passages. It teaches skill applications such as sound combinations, affixes, vocabulary development, recalling of events, sequencing, and building reading rate. Grammar, vocabulary, and oral and written study skills are embedded in the course. After completing Decoding C, students average 150 wpm, 98% accuracy. Students can read materials with a wide range of syntax, vocabulary, format, and content.

L.S. English 9Open to Grade 9 *Special Education Students*

2 Semesters

This freshman level life skills class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for L.S. English 10 and beyond. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics in both formal and informal writing which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities.

Prerequisite: None*This course is aligned with the Common Core as determined by the state of Michigan.***L.S. English 10**

Open to Grade 10

2 Semesters

This sophomore level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for L.S. English 11 and beyond. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics in both formal and informal writing which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities.

Prerequisite: Successful completion of L.S. English 9*This course is aligned with the Common Core as determined by the state of Michigan.***L.S. English 11**

Open to Grade 11

2 Semesters

This junior level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for L.S. English 12 and beyond. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics in both formal and informal writing which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities.

Prerequisite: Successful completion of L.S. English 10

This course is aligned with the Common Core as determined by the state of Michigan.

L.S. English 12

Open to Grade 12

2 Semesters

This senior level class emphasizes higher-level thinking, reading for information, writing and communication skills to best prepare students for life after graduation. The development of deeper reading comprehension and critical analysis are stressed, as are more sophisticated writing skills incorporating the practical use of grammar and mechanics in both formal and informal writing which include a variety of essays. Students also utilize technology as they learn and practice effective researching strategies, as well as participate in student-centered activities.

Prerequisite: Successful completion of L.S. English 11

This course is aligned with the Common Core as determined by the state of Michigan.

L.S. SCIENCE

L.S. Earth Science -Offered again 2018-2019 school year

Open to Grades 9-12

2 Semesters

Earth Science is the study of the Earth's landforms, history, water, atmosphere, human impact, and the universe. This course is composed of 11 units that are connected to the Michigan High School Curriculum Standards and Next Generation Science Standards. The units include: Introduction to Earth and Space, Systems of Matter and Energy, Natural Resources, Earth in the Solar System, Space, Plate Tectonics, Earth's Changing Surface, Earth's Water, The Atmosphere, History of Earth, and Human Activity and Earth. Emphasis will be placed on mastery of the Disciplinary Core Ideas and Science and Engineering Practices outlined in the Earth Science portion of the NGSS curriculum document. Earth Science is an elective and counts toward students' 3rd year of science in the Michigan Merit Curriculum for graduation.

L.S. Biology

Open to Grades 9-12

2 Semesters

The purpose of biology is to help students be able to understand the role science plays in society, technology, and career opportunities. Students will be able to participate in lab days where they will gather information through testing and observing hypotheses, laws, and theories. Topics covered can include: Ecology, Cell Anatomy, Heredity and Genetics, and the Human Body. Students will develop writing skills while gaining an understanding of biology. Biology is a required science in the Michigan Merit Curriculum

L.S. Conceptual Physics

Open to Grades 11-12

2 Semesters

The purpose of Physics is to help students be able to understand the role science plays in society, technology, and career opportunities. Students will be able to participate in lab days where they will gather information on motion, gravity, color spectrum, and many other topics by testing and observing hypotheses, laws, and theories. Students will develop writing skills while gaining an understanding of physics. A choice between physics or chemistry is a required science in the Michigan Merit Curriculum for graduation.

L.S. SOCIAL STUDIES

L.S. Civics

Open to Grades 11-12

1 Semester

The purpose of Civics is to better understand our American form of government. To develop this understanding we will explore basic ideas such as separation of powers, social contract, and checks & balances that guided our founding fathers in establishing our form of government. We will compare our system with other forms of government, as well as look at the relationships between local, state and federal governments. Citizen participation will be emphasized. Also, the expanding role of the Federal Government and the Executive Branch in particular will be investigated and debated.

****Graduation Requirement**

L.S. Economics

Open to Grades 11-12

1 Semester

This class is designed to introduce students to some of the basic concepts needed in our modern world economy. We will look at what motivates basic economic activities and how these activities, when taken together, impact our economy. We will discuss such basic concepts as scarcity, supply and demand as well as look at the effect of governmental policies on the economy

*** * Graduation requirement**

L.S. United States History 1890-Present

Open to Grades 9-12

2 Semesters

This course is designed as a 10th grade graduation requirement. The purpose of United States History is to look at significant events, people, themes, and outcomes as they impacted the United States from the latter nineteenth century to the present. Students will identify the institutions that have made our nation great and gain an understanding of their country, its ideals, and the progress made toward achieving its goals. The students will begin to develop persuasive writing skills and an understanding of the Social Studies Core Democratic Values as they apply to the Michigan Merit Curriculum.

****Graduation Requirement**

L.S. World History 1 & 2

Open to Grades 9-12

2 Semesters

World History is designed to provide students with a study of the people and civilizations of the world from the dawn of man through the modern era. This class is suggested for all college bound students. Discussion will include both the physical and social development of the world and increase students understanding of the interdependence of global cultures. International and civil conflicts, the development of world religions, characteristics of civilizations and types of governments, cultural diffusion, comparison of Eastern and Western cultures and history's impact on the world today will all be explored in a survey format. Exploration of the economic, social, and political changes that led the world from some of the greatest civilizations through the darkest period of European history and back again to the Renaissance will lead students to discussion of world revolutions and the development of the United States. Literacy activities, map skills, persuasive and informational writing, summarizing, note taking, and annotated reading of a variety of sources will be utilized. This course is intended to give students an overview of the development and continuing evolution of our world.

***Graduation requirement*

L.S. MATHEMATICS

L.S. Pre-Algebra

Open to Grades 9-12

2 Semesters

This is a basic algebra class designed to better prepare students for Algebra I or Integrated I. These concepts will be linked to daily living skills and will include basic computation skills including adding, subtracting, multiplying and dividing whole numbers and fractions.
This course is aligned with the current Michigan High School Content Expectations.

L.S. Integrated Math I

Open to Grades 9-12

2 Semesters

This first year algebra and geometry course challenges students to develop a better conceptual understanding of the structure of algebra and geometry and stronger problem-solving skills. Students will be actively involved in taking connections among different branches of mathematics and solving real-life problems. The students will also discover, learn and apply geometry. They will study two and three dimensional figures, area and volume, right triangle trigonometry, and geometry in the coordinate plane. By the nature of algebra and geometry, mastery of many of the techniques in the course is a prerequisite for higher-level math and science courses.

This course is aligned with the current Michigan High School Content Expectations.

L.S. Integrated Math II

Open to Grades 10-12

2 Semesters

This second year algebra and geometry course is designed to help students discover, learn, and apply geometry and algebra. Students will have plenty of opportunities to review and use algebra concepts while studying geometry.

This course is aligned with the current Michigan High School Content Expectations.

L.S. Algebra 2 Prep

Open to Grades 11-12

2 Semesters

Algebra 2 Prep is the framework for a highly competitive job market in today's world. It is extremely useful in nearly every aspect of life including, but not limited to science, business, communications, engineering, computers, electronics, medicine, music and biology. Our focus of study for Algebra 2 Prep will be to develop skills in reasoning, problem analysis and problem solving. The first semester consists of a review of all Algebra 1 skills including: solving equations, linear equations, linear functions, and systems of linear equations. While the topics covered during second semester include: polynomial expressions, quadratic equations and quadratic functions.

This course is aligned with the current Michigan High School Content Expectations.

L.S. Algebra 2 Concepts

Open to Grade 12

2 Semesters

Algebra 2 Concepts is a continuation of Algebra 2 Prep. The focus of study for Algebra 2 Concepts will still be the development of skills in reasoning, problem analysis and problem solving. Students in Algebra 2 Concepts will have a brief review of quadratic functions and polynomial expressions in semester one, followed by a study of polynomial functions, rational expressions and rational equations. Topics covered during the second semester include: Exponential and logarithmic expressions, sequences and series, trigonometric functions, ending with a study of probability and statistics.

MATHEMATICS

Algebra 1

Open to Grades 9/10

2 Semesters

This first year algebra course challenges students to develop a better conceptual understanding of the structure of algebra and stronger problem-solving skills. Students will be actively involved in taking connections among different branches of mathematics and solving real-life problems. By the nature of algebra, mastery of many of the techniques in the course is a prerequisite for higher-level math and science courses. This course is aligned with the current Common Core State Standards.

Prerequisite: Teacher recommendation

Geometry

Open to Grades 10/11

2 Semesters

This course is designed to help students discover, learn, and apply geometry. Students will be challenged to make connections from concrete examples to abstract concepts. Students will have plenty of opportunities to review and use algebra concepts while studying geometry. In this course, students will study two and three dimensional figures, area and volume, right triangle trigonometry, and geometry in the coordinate plane. The main emphasis of the course is to help students organize thoughts and solve mathematical problems while preparing them for further study in mathematics and science. This course is aligned with the current Common Core State Standards.

Prerequisite: Teacher Recommendation

Honors Geometry

Open to Grades 9/10

2 Semesters

This course is designed for students who are highly interested in mathematics. This course primarily consists of geometry topics including a rigorous study of deductive proof, coordinate geometry, and the study of two dimensional figures. Emphasis is placed upon reasoning and problem solving skills gained through study of similarity, areas, volumes, circles, and coordinate geometry. Algebra 1 topics are used extensively and a thorough knowledge of linear equations, factoring and solving systems of equations is expected.

Prerequisite: Teacher recommendation, successful completion of Honors 8, or a B or higher in Algebra 1.

Algebra 2 Prep

Open to Grade 11

2 Semesters

Algebra 2 Prep is the framework for a highly competitive job market in today's world. It is extremely useful in nearly every aspect of life including, but not limited to science, business, communications, engineering, computers, electronics, medicine, music and biology. Our focus of study for Algebra 2 Prep will be to develop skills in reasoning, problem analysis and problem solving. The first semester consists of a review of all Algebra 1 skills including: solving equations, linear equations, linear functions, and systems of linear equations. While the topics covered during second semester include: polynomial expressions, quadratic equations and quadratic functions.

This course is aligned with the current Common Core State Standards.

Prerequisite: Teacher recommendation

Algebra 2 Concepts

Open to Grade 12

2 Semesters

Algebra 2 Concepts is a continuation of Algebra 2 Prep. The focus of study for Algebra 2 Concepts will still be the development of skills in reasoning, problem analysis and problem solving. Students in Algebra 2 Concepts will have a brief review of quadratic functions and polynomial expressions in semester one, followed by a study of polynomial functions, rational expressions and rational equations. Topics covered during the second semester include: Exponential and logarithmic expressions, sequences and series, trigonometric functions, ending with a study of probability and statistics.

This course is aligned with the current Common Core State Standards.

Prerequisite: Successful Completion of Algebra 2 Prep

Algebra 2

Open to Grades 10 - 12

2 Semesters

Advanced Algebra is the framework for all higher level mathematics. It is extremely useful in nearly every aspect of life including, but not limited to, science, business, communications, engineering, computers, electronics, medicine, music, and biology. Our study of advanced algebra will develop skills in reasoning, problem analysis and problem solving. Students who master advanced algebra will gain experience with algebraic solutions of problems in various content areas, including the solution to linear equations, systems of equations, quadratic equations, logarithmic and exponential functions, trigonometric functions and the complex number system. In addition to the algebra objectives, students will be exposed to various statistical concepts including the normal distribution. This course is aligned with the current Common Core State Standards.

Prerequisite: Teacher recommendation.

Honors Algebra 2

Open to Grades 10 - 12

2 Semesters

This course builds on Algebra I, while integrating geometry and trigonometry. Matrices, sequences, conics, and logarithms are introduced, along with more involved analysis of functions and equations. Applications will be made to many occupations, using concepts such as right triangle trigonometry, complex numbers, standard deviation, and normal distributions. Students will use graphing calculators to help them visualize these concepts. This is an accelerated algebra course intended for students who have a high degree of ability and interest. The usual topics of Algebra II are treated, along with topics in Probability, Mathematical Modeling, Data Analysis and Trigonometry. One of the goals of this course is to move students to a more independent learning style. There is emphasis on integrating skills and procedures with the logical thinking needed in solving the more challenging problem. This course is aligned with the current Common Core State Standards.

Prerequisite: Teacher recommendation, successful completion of Honors Geometry, or a B or higher in Geometry.

Business Math

Open to Grade 12

2 Semesters

This course takes a look at how you may use business mathematics in your home and your career. Strengthening and refining coverage throughout, the course encompasses all areas of business mathematics—beginning with skill-building sections on whole numbers and decimals; guiding students through fractions, percents, statistics, and equations; then easing them into the specifics of business-related mathematics applications with discussions on payroll, discounts, markup/markdown, interest, credit and more.

Students who are enrolled in both semesters and maintain an average of B or higher for both semesters will earn 3 Delta College credits in Management 110.

Elementary Statistics

Open to Grades 11 - 12

2 Semesters

This course is offered with the intent of exposing students to student-friendly uses of statistics and not just the computation of its myriad of formulas. The course offers a variety of features all of which are designed to show students how statistics is used to picture and describe the world and to show students that statistics is used to make informed decisions. The course offers a balance between computation, decision-making, and conceptual understanding. Students will not only be asked to construct graphs, charts, and plots, but will be asked to use their constructions to write explanations, find patterns, and make decisions. Statistics contain many formulas and variables, including radicals, summation notation, Greek letters, and subscripts. Some familiarity with algebra and evaluation of

algebraic expressions are necessary. The course is designed to produce informed consumers of statistical reports not statisticians.

Prerequisite: Teacher recommendation.

Honors Pre-Calculus

Open to Grades 11 -12

2 Semesters

This course is designed to help students to truly understand the fundamental concepts of algebra, trigonometry, and analytical geometry. This course also will show how algebra and trigonometry can be used to model real-life problems. The course combines appropriate use of technology as well as “paper and pencil” analytical techniques to provide a balanced approach to the study of pre-calculus. The course encourages graphical, numerical, and algebraic modeling of functions as well as problem solving and conceptual understanding.

Prerequisite: Teacher recommendation, successful completion of Honors Algebra 2, or a B or higher in Algebra 2.

AP Calculus

Open to Grades 11-12

2 Semesters

The topics of instruction in AP Calculus AB focus on differential and integral calculus including: functions, graphs and limits, derivatives, and integrals. Problems are explored from multiple viewpoints including, algebraic, numerical, and graphical. Problem solving is developed throughout the course with an emphasis on practical applications and interpretation of solutions. Students have the opportunity to take the Advanced Placement Calculus AB Examination for possible college credit. Graphing calculators are required for the AP tests.

Prerequisite: Teacher recommendation and successful completion of Honors Pre-Calculus.

PHYSICAL EDUCATION

Fitness

Open to Grade 9

1 Semester

Fitness is a one semester course of physical education. This is a required class for graduation from John Glenn High School. Students are required to dress and participate each day. Fitness is usually taken in the freshman year of high school. Students will learn a wide variety of strategies to attain and maintain personal health and fitness. Students will engage in classroom as well as physical activities in the fitness center, gymnasium, pool,

and outdoor athletic facilities. This course is aligned with the High School Content Expectations as determined by the state of Michigan.

Health

Open to Grade 9

1 Semester

This one semester required course will enable students to become better informed about the care and maintenance of their personal health. Students will become more knowledgeable regarding the effects of alcohol, tobacco, and drugs on the human body. A unit on human sexuality and reproduction will also be included.

This course is aligned with the High School Content Expectations as determined by the state of Michigan.

Recreation

Open to Grades 11-12

1 - 2 Semesters

The recreation course is designed to meet the activity needs of our students and to expose them to various activity areas that will help develop positive leisure time interests. Field trips are offered in each semester. These co-educational classes stress individual and team sports which will enhance physical and social wellness.

Prerequisite: Successful completion of Fitness with a grade of C-or better

This course is aligned with the High School Content Expectations as determined by the state of Michigan

Strength & Physical Conditioning Skills

Open to Grades 10-12

1 - 2 Semesters

This class will emphasize strength and conditioning development used in sports and other strenuous activities. Students must be prepared to be engaged in intensive physical workouts each day. This course is aligned with the High School Content Expectations as determined by the state of Michigan.

Prerequisite: Successful completion of Fitness

Advanced Strength & Physical Conditioning Skills

Open to Grades 10 - 12 (Grades 10 and 11 given priority)

1 - 2 Semesters

This is a high intensity physical education course. It uses explosive type weight training, running, plyometric jumping drills, calisthenics, speed training, etc. and some sports to achieve a competitive athlete's level of physical conditioning, which will lead to a healthier lifestyle.

Prerequisite: Application and teacher recommendation necessary

Aquatics and Lifeguard Training (taught on a rotating basis)

Open to Grades 10 - 12

1 - 2 Semesters

Aquatics will include stroke and skill development, water related exercises/activities, and water safety skills. Students will also participate in several different aquatic sports/activities that will increase their fitness levels

Lifeguard Training teaches the skills needed to prevent and respond to aquatic emergencies. The course content and activities prepare lifeguard candidates to recognize emergencies, respond quickly and effectively to emergencies. Students successfully completing this course will receive American Red Cross certifications, which will permit them to seek jobs as lifeguards.

Prerequisite: Students must be 15 years of age by time of June final exam

SCIENCE

Academic Earth Science

Open to Grades 9-12

2 Semesters

Earth Science is the study of the Earth's landforms, history, water, atmosphere, human impact, and the universe. This course is composed of 11 units that are connected to the Michigan High School Curriculum Standards and Next Generation Science Standards. The units include: Introduction to Earth and Space, Systems of Matter and Energy, Natural Resources, Earth in the Solar System, Space, Plate Tectonics, Earth's Changing Surface, Earth's Water, The Atmosphere, History of Earth, and Human Activity and Earth. Emphasis will be placed on mastery of the Disciplinary Core Ideas and Science and Engineering Practices outlined in the Earth Science portion of the NGSS curriculum document. This course is highly recommended for preparation for the MSTEP, ACT, and college prep.

Prerequisite: Completion of Eighth grade science with a D- or better, OR teacher recommendation.

Honors Earth Science

Open to Grades 9-12

2 Semesters

Earth Science is the study of the Earth's landforms, history, water, atmosphere, human impact, and the universe. Honors Earth Science is composed of 11 units that are connected to the Michigan High School Curriculum Standards and Next Generation Science Standards. The units include: Introduction to Earth and Space, Systems of Matter and Energy, Natural Resources, Earth in the Solar System, Space, Plate Tectonics, Earth's Changing Surface, Earth's Water, The Atmosphere, History of Earth, and Human Activity and Earth. Emphasis will be placed on mastery of the Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts outlined in the Earth Science portion of the NGSS curriculum document.

This course is recommended for College-Prep students planning to pursue a degree in any science field.

Prerequisite: Completion of Eighth grade science with an A- or better, OR completion of Honors Eighth grade science with a B or better, AND teacher recommendation. (Other factors may also be considered; NWEA, PSAT, MSTEP, etc) *Placement in this course is based on academic preparation and space available*

Academic Biology

Open to Grades 10-12

2 Semesters

Biology is the study of life and deals with the structure and function of living organisms from the molecular and cellular level to the complex organization of organisms. The course is divided into 5 basic units derived from 19 chapters directly connected to the Michigan High School Curriculum Standards and Next Generation Science Standards. These units include: Introduction to Biology and Biochemistry, Ecology, Cell Anatomy and Physiology, Heredity and Genetics, and Evolution. This course fulfills the one year state requirement for Biology. Emphasis will be placed on mastery of the Michigan Science Content Standards for Biology.

Prerequisite: Completion of Honors/Academic Earth Science with D- or better, OR teacher recommendation.

Honors Biology

Open to Grades 9 -10

2 Semesters

Honors Biology is the study of life and deals with the structure and function of living organisms from the molecular and cellular level to the complex organization of organisms. The course is divided into 5 basic units derived from 19 chapters directly connected to the Michigan High School Curriculum Standards and Next Generation Science Standards. These units are: Introduction to Biology and Biochemistry, Ecology, Cell Anatomy and Physiology, Heredity and Genetics, and Evolution. This course fulfills the one year state requirement for Biology. Emphasis will be placed on mastery of the Michigan Science Content Standards for Biology. Additional rigor and a culminating final project will be an integral part of this Honors Course.

Prerequisite: Completion of Academic Earth Science with an A- or better, OR Completion of Honors Earth Science with a B or better, AND teacher recommendation. *Placement in this course is based on academic preparation and space available*

Biotechnology

Open to Grades 11-12

1 Semester

This course concerns recent advances in biology and biotechnology. It addresses the issues of DNA, genes, and how they pertain to the improvement of life. Applications in medicine, pharmacy, agriculture, forensics, anthropology, marine biology, biological weapons, stem cells, and cancer are examined. Students are also asked to reflect on the ethical, ecological, political, global resource, educational, environmental issues and

concerns that come with biotechnology. This class is hands-on and lab based. Students spend a large amount of class time performing procedures that complement biotechnology research applications. Some concepts are aligned with the Michigan High School Curriculum Standards and Next Generation Science Standards.

Prerequisite: Completion of Academic Biology with a B or better AND completion or current enrollment in Academic Chemistry OR Academic Physics, OR teacher recommendation.

Placement in this course is based on academic preparation and space available

Comparative Anatomy

Open to Grades 11-12

1 Semester

This course will cover all systems of the human body, utilizing laboratory experiments and a minimum of two dissections. This course is recommended for all medical or healthcare oriented students. This course will cover structures and functions of cells, tissues, organs, and organ systems. Chemical compounds found in the human body and their specific reactions in the maintenance of life to maintain homeostasis will be evaluated. The class will be divided into units by organ systems of the human body. Completing labs and dissections are essential components in evaluating students' understanding of anatomy. Some concepts are aligned with the Michigan High School Curriculum Standards and Next Generation Science Standards.

Prerequisite: Completion of Academic Biology with a B or better AND completion or current enrollment in Academic Chemistry OR Academic Physics, OR teacher recommendation.

Placement in this course is based on academic preparation and space available

AP Biology

Open to Grades 10 - 12 (preference will be given to grades 11 - 12)

2 Semesters

AP Biology is equivalent to a two-semester college introductory biology course. The course will be broken into 12 advanced units. They are Biochemistry, Cell Structure, Metabolism, Cell Reproduction, Genetics, Evolution, Phylogony, Microbia and Plants, Animal Systems, Hormones, Ecology, and Conservation. Students who take an AP Biology course will also develop advanced inquiry and reasoning skills such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts across domains. The result will be readiness for the study of advanced topics in subsequent college courses. Students will also be offered the opportunity after successfully completing the course to take the AP Exam to earn college credit.

Prerequisite: Students must have completed Academic Biology or Honors Biology with an A- or better to enter this course. If a student has not completed Academic Biology he/she must successfully complete an Honors Application which must contain recommendations from only Academic or Honors level teachers (1 in science, 1 in math, and 1 in ELA).

Placement in this course is based on academic preparation and space available

Chemistry

Open to Grades 11-12

2 Semesters

This course introduces the basic principles of Chemistry and is being revised to align with the new “Next Generation Science Standards”. Currently the course is divided into units that include: Matter and Change, Scientific Measurement, Atomic Structure, Electrons in Atoms, The Periodic Table, Chemical Bonding, Chemical Names and Formulas, Molar Quantities, Chemical Reactions, Stoichiometry, and Behavior of Gases. This course fulfills the one year state requirement for Chemistry. Emphasis will be placed on mastery of the Essential Science Content Standards for Chemistry.

Prerequisite: Earned credit in Biology and Algebra I or currently enrolled in these courses.

Academic Chemistry

Open to Grades 11-12

2 Semesters

This course introduces the basic principles of Chemistry and is being revised to align with the new “Next Generation Science Standards”. Currently the course is divided into units that include: Matter and Change, Measurements and Calculations, Atomic Structure, Molar Quantities, Arrangement of Electrons in Atoms, The Periodic Table, Chemical Bonding, Chemical Nomenclature and Formulas, Chemical Reactions, Stoichiometry, Behavior of Gases, and Acids and Bases. This course fulfills the one year state requirement for Chemistry and is highly recommended for College-Prep students. Emphasis will be placed on mastery of the Essential and Recommended Science Content Standards for Chemistry.

Prerequisite: Completion of Academic Biology with D or better, OR teacher recommendation. Students must have also earned math credit in Algebra I and Geometry.

Honors Chemistry

Open to Grades 10-12

2 Semesters

This course introduces the basic principles of Chemistry and is being revised to align with the new “Next Generation Science Standards”. The course is divided into units that include: Matter and Change, Measurements and Calculations, Atomic Structure, Molar Quantities, Arrangement of Electrons in Atoms, The Periodic Table, Chemical Bonding, Chemical Nomenclature and Formulas, Chemical Reactions, Stoichiometry, Behavior of Gases, Solutions, Acids and Bases, and Thermochemistry. This course fulfills the one year state requirement for Chemistry and is highly recommended for College-Prep students planning to pursue a degree in medicine or any science field. Emphasis will be placed on mastery of the Essential and Recommended Science Content Standards for Chemistry.

Prerequisites: Completion of Academic Biology with an A- or better, OR Completion of Honors Biology with a B or better, AND teacher recommendation. Students must have also earned math credit in Algebra I, Geometry, and Algebra II. *Placement in this course is based on academic preparation and space available*

Honors Organic Chemistry

Open to Grade 12

1 Semester

This course will cover the chemistry of carbon compounds. Emphasis is placed on organic nomenclature, and the physical and chemical properties of organic compounds. This course is recommended for students who plan to pursue a degree in medicine or any science field. Some concepts are aligned with the Next Generation Science Standards.

Prerequisites: Completion of Academic Chemistry with a B or better or Honors Chemistry with a C or better, OR teacher recommendation.

Placement in this course is based on academic preparation and space available

Honors Advanced Inorganic Chemistry/Lab Analysis

Open to Grade 12

1 Semester

This course involves a more detailed study of the concepts of Inorganic Chemistry. Emphasis is placed on objectives tied to College Inorganic Chemistry courses and aligned with the Next Generation Science Standards for Chemistry. A significant amount of time is spent in the laboratory applying theories and techniques related to Inorganic Chemistry.

Prerequisites: Completion of Academic Chemistry with a B or better or Honors Chemistry with a C or better, OR teacher recommendation.

Placement in this course is based on academic preparation and space available

Conceptual Physics

Open to Grades 11-12

2 Semesters

This course introduces the basic principles of Physics. The course is divided into eight units with twenty individual topics that are aligned with the Michigan High School Curriculum Standard and the Next Generation Science Standards. It gives a scientific approach to learning Physics with a minimal amount of math concepts. Real world applications are stressed throughout the course with an emphasis on discovery lab activities or actual building of learned concepts. This course will fulfill the state requirement of one year of Physics. Emphasis will be placed on mastery of the Essential, and Core Science Content Standards for Physics.

Prerequisite: Earned credit in Biology and Algebra I or currently enrolled in these courses.

Academic Physics

Open to Grades 11-12

2 Semesters

This course introduces the basic principles of Physics. The course is divided into eight units that are aligned with the Michigan High School Curriculum Standard and the Next Generation Science Standards. The units of study include: Motion, Forces, Momentum and Impulse, Mechanical Energy, Electricity and Electromagnetism, Waves, and Thermal and

Nuclear Energy. A requirement of the course will be “outside of class” student builds. These projects are used to enhance much of the curriculum. This course fulfills the state requirement of one year of Physics. Emphasis will be placed on mastery of the Essential, Core, and Recommended Science Content Standards for Physics.

Prerequisites: Completion of Academic Chemistry with a C- or better, OR Chemistry with an A- or better, OR Academic Biology with an A- or better, OR teacher recommendation. Students must have earned math credit in Algebra I, Geometry, and Algebra II.

Placement in this course is based on Academic preparation and space available

Michigan Wildlife

Open to Grades 11-12

1 Semester

Students will study the plants, organisms, insects, animals, and ecologies of different natural Michigan habitats. Other topics include endangered species, invasive species, pollution, tracking, hunting, fishing, and conservation. The class will involve several laboratory exercises, collecting of specimen, and field trips. The class will occasionally require time outside of the normal school hours. Some concepts are aligned with the State of Michigan Science Content Standards for Biology.

Prerequisite: Credit earned in Biology AND Chemistry or Physics, OR teacher recommendation.

Agricultural Science

Open to Grades 11-12

1 Semester

This course will introduce students to the basic world of agriculture. The course will include the history of agriculture, the study of plant agriculture, and the future of agriculture with an emphasis on organic farming and genetic engineering. Some concepts are aligned with the State of Michigan Science Content Standards for Biology within the Agricultural Curriculum.

Prerequisite: Credit earned in Biology AND Chemistry or Physics, OR teacher recommendation.

Zoology

Open to Grades 11 -12

2 Semesters

Zoology is a survey of the Animal Kingdom. Zoology is divided into nine units directly connected to the Michigan High School Curriculum Standards and Next Generation Science Standards. The units included are: Introduction to Animals, Simple Invertebrates, Mollusks and Annelids, Arthropods and Echinoderms, Fishes and Amphibians, Reptiles and Birds, Mammals, and the course will end with Animal Behavior. Emphasis will be placed on mastery of the Michigan Science Content Standards for Biology within the Zoology curriculum. This course will not require multiple dissections.

Prerequisites: Completion of Academic Biology, Honors Biology, or AP Biology.

Robotics & the Maker Movement

Open to Grades 9-12

2 Semesters

This course will explore the different facets of the Maker Movement. The Maker Movement is based on experimental play where makers learn by doing. Makers explore and create with technology, share and build upon ideas of others, and identify challenges and solve problems. The focus of this course will be on the following areas of the Maker Movement: Electronics, Workshop, Craft, Science, Home, and Art & Design. A major focus of the course will be Robotics and participation in FIRST Robotics.

Prerequisites: None

SOCIAL STUDIES

Economics

Open to Grades 11 - 12

1 Semester

This class is designed to introduce students to some of the basic concepts needed in our modern world economy. We will look at what motivates basic economic activities and how these activities, when taken together, impact our economy. We will discuss such basic concepts as scarcity, supply and demand as well as look at the effect of governmental policies on the economy.

*** Graduation requirement*

Civics

Open to Grades 11 - 12

1 Semester

The purpose of Civics is to better understand our American form of government. To develop this understanding we will explore basic ideas such as separation of powers, social contract, and checks & balances that guided our founding fathers in establishing our form of government. We will compare our system with other forms of government, as well as look at the relationships between local, state and federal governments. Citizen participation will be emphasized. Also, the expanding role of the Federal Government and the Executive Branch in particular will be investigated and debated.

***Graduation Requirement*

AP Government and Politics

Open to Grades 11 - 12

2 Semesters

Advanced Placement Government and Politics is a college level course for highly motivated students. The course is an introductory study of the U.S. government and political system. The course includes in depth reading, discussion, lecture, writing, and research. Topics will include Constitutional Underpinnings, Institutions, Civil Rights and Civil Liberties, Political Beliefs, Political Parties, Mass Media, and Interest groups, and Public Policy.

Note: (Economics is still a requirement for graduation; course can be taking in classroom setting or E2020 setting)

Academic United States History 1890-Present

Open to Grades 10-12

2 Semesters

This course is designed as a 10th grade graduation requirement. The purpose of United States History is to look at significant events, people, themes, and outcomes as they impacted the United States from the latter nineteenth century to the present. Students will identify the institutions that have made our nation great and gain an understanding of their country, its ideals, and the progress made toward achieving its goals. The students will begin to develop persuasive writing skills and an understanding of the Social Studies Core Democratic Values as they apply to the Michigan Merit Curriculum.

***Graduation Requirement*

Honors United States History 1890-Present

Open to Grades 10-12

2 Semesters

Honors United States History will include the course objectives from Academic United States History presented in a more rigorous college bound approach. This approach will include more in-depth reading and writing activities to further enhance the students' higher level thinking skills. Students will be expected to apply for entry into the class.

Prerequisite: Teacher Recommendation

***Also fulfills the Graduation Requirement*

Practical Law

Open to Grades 11-12

1 Semester

This course will provide students with an understanding of their legal rights and responsibilities, knowledge of everyday legal problems, and the ability to analyze, evaluate, and in some cases, resolve legal disputes.

Consumer Education

Open to Grades 11-12

1 Semester

This course will examine the factors involved in consumer spending, consumer protection and consumer education. More specifically, the course will deal with such everyday problems as the use of credit, budgeting of income, making wise and safe purchases, filing income tax returns, understanding financial security, pensions and retirement plans, life insurance, health insurance, buying a home, buying a car and investing money. Also, this course will explore some basic attitudes, desires and misconceptions which people hold that help determine their success or failure as consumers.

Academic World History 1 & 2

Open to Grades 9-12

2 Semesters

Academic World History is designed to provide students with a study of the people and civilizations of the world from the dawn of man through the modern era. This class is suggested for all college bound students. Discussion will include both the physical and social development of the world and increase students understanding of the interdependence of global cultures. International and civil conflicts, the development of world religions, characteristics of civilizations and types of governments, cultural diffusion, comparison of Eastern and Western cultures and history's impact on the world today will all be explored in a survey format. Exploration of the economic, social, and political changes that led the world from some of the greatest civilizations through the darkest period of European history and back again to the Renaissance will lead students to discussion of world revolutions and the development of the United States. Literacy activities, map skills, persuasive and informational writing, summarizing, note taking, and annotated reading of a variety of sources will be utilized. This course is intended to give students an overview of the development and continuing evolution of our world.

***Graduation requirement*

Honors World History 1 & 2

Open to Grades 9-12

2 Semesters

Honors World History I and 2 will follow the course objectives from Academic World History I and 2 in a more rigorous college bound approach. This honors curriculum will include more in-depth reading and writing activities designed to enhance the students' higher level thinking skills such as reading and interpreting primary source documents, completion of a novel depicting a time period from the course and advanced essays and theme papers. Students will be expected to apply for entry into Honors World History using the application process specified through the counseling department.

Prerequisite: Teacher Recommendation

Introduction to Psychology

Open to Grades 11-12

1 Semester

This course is designed as an introduction to the social science of Psychology in a survey format. It is recommended for college bound students. Topics to be explored will include an understanding of psychological methods, basic and applied science, vocabulary and terminology, founders and contributors to the field and classical theories as well as current trends in the study of Psychology. The course will be divided into three main areas of study including: Introduction to Psychology, Developmental Psychology and the Life Span and Individual Personality Development and Altered States of Consciousness. The course develops Psychology as a behavioral science and will include an exploration of community resources, annotated reading of a variety of text types, persuasive and informative writing and group interaction.

Social Psychology

Open to Grades 11-12

1 Semester

This course is designed to further explore the field of Psychology with an emphasis on how and why humans interact with one another, form interdependencies, create groups and cliques, develop prejudices, influence behaviors, and develop and treat psychological disorders. Social institutions, social organizations and social problems will also be discussed. This course is intended as a continuation of the concepts developed in Introduction to Psychology and will be conducted in a survey format. It is encouraged for college bound students.

World War II/Holocaust

Open to Grades 10-12

1 - 2 Semesters

This course is offered with the intent of examining World War II and the Holocaust from a global perspective. The events and consequences of World War II and the Holocaust forever changed the face of the world in the Twentieth Century. The events that led to the outbreak of World War II, the specific theaters of war, major players, battles, weapons and eventual outcomes will be identified and researched. The course is intended to give students an overview of political, economic and social conditions that existed, and resulted from the war. The Holocaust will be studied from perspectives that include: perpetrators, victims, resistance movement, survivors and bystanders. Holocaust materials utilized include primary documents, artifacts, films, literature, art, music and first person accounts. This course covers the Michigan High School content expectations for history.

Current Events

Open to Grades 9-12

1 - 2 Semesters

Current Events and careers is a full year course structured to give students an understanding of current issues in many areas of a political, social, and economic nature. The course emphasizes research done by the student since the topics chosen are very fluid in their nature, meaning that the topics and the amount of coverage on the topics will fluctuate on any given day, week, or month depending on topics current in the media. There will be no textbook for the class. All information will be taken from newspapers, magazines, internet, television reports, and a variety of other sources.

AP United States History (APUSH)

Open to Grades 11-12

2 Semesters

Advanced Placement United States History (APUSH) is a year long exploration of American History from 1492 to the present. The course follows the College Board requirements and college credit can be earned with a passing score on the national exam at the end of the school year. This course requires extensive reading and interpretation skills of primary and secondary historical documents. The course is also writing intensive with mastery of short answer questions, long essay questions, and documents based questions. The course is divided into nine time periods over the year.

Strategic Intervention Courses

Strategic Advancement for Literacy I

This course is designed to strengthen students' reading skills through the teaching of specific reading strategies coupled with the opportunities to put them into practice. Students are placed in the course through a process combining assessment data, grades, and teacher recommendation.

Strategic Algebra (offered during Flex Time)

This course is designed to strengthen students' algebra skills in order to support them in their Algebra course. Students receive more exposure to algebra topics and different approaches to topics that are covered in the traditional algebra course. Students are placed in the course through a process combining assessment data, grades, and teacher recommendation.

Flex Classes

(Offered 48 minutes a day during a three day period. Courses will be CR/NCR).

AP Seminar 101

Open to Any Student Currently Enrolled in an AP Course

1 - 2 Semesters

This is a flex class designed for any student currently enrolled in one of the four AP classes offered. This seminar will allow AP students to secure extra help from their AP teachers and have extra time to complete assignments, readings and/or writings. These AP courses are very demanding, and this flex would allow students extra time and help as they stay on the AP track.

Art Workshop Homeroom

Open to Grades 11 – 12

1 - 2 Semesters

Teacher will facilitate student-led learning. Students may work with any media within their concentration. Students will propose projects for approval and research the skills necessary to complete projects. Students may choose to use the materials inventoried in the classroom or purchase their own materials for projects. Teacher will conference with student, support, and assess student learning. Students in 3-D concentration will be encouraged to work on the pottery wheel.

Prerequisites: Successful completion of Studio Art, with a grade of B or higher, portfolio review, and teacher approval. Transfer students must submit a portfolio for teacher review for admission into this course. Students may enroll in up to 2 additional hours of Workshop.

Open Studio

Open to Grades 10 – 12

1 - 2 Semesters

Students will work on projects assigned in their Studio Class. Teacher will facilitate student-led learning. Students may work with any media within their concentration.

Prerequisites: Consecutive enrollment in Studio 2D and/or Studio 3D or completion of prior art class. Teacher recommendation for students enrolled in Foundations or Ceramics and Sculpture.

Extended E2020

Open to Grades 9 - 12

1 - 2 Semesters

This class is intended to be for students who are actively in credit recovery. This course will focus on students working on additional E2020 courses needed to be completed for graduation requirements. Preference will be given to juniors and seniors.

Prerequisites: Must be currently enrolled in an E2020 course as part of the student's regular schedule unless approved by teacher and counselor. Student needs to be in credit recovery and referred by a counselor. Students may not be enrolled in flex block if are on track for graduation and seeking elective credit.

Hogwarts 101

Open to Grades 9 - 12

1 - 2 Semesters

The objective of this course is to explore J.K. Rowling's world in the *Harry Potter* series of books and films. In this course we will explore topics, themes, and issues brought about by this series. We will discuss the series and explore the key differences between book and film and discuss which one is a better representation of the series.

The Books

Harry Potter and the Sorcerer's Stone
Harry Potter and the Chamber of Secrets
Harry Potter and the Prisoner of Azkaban
Harry Potter and the Goblet of Fire
Harry Potter and the Order of the Phoenix
Harry Potter and the Half-Blood Prince
Harry Potter and the Deathly Hallows

The Films

Harry Potter and the Sorcerer's Stone
Harry Potter and the Chamber of Secrets
Harry Potter and the Prisoner of Azkaban
Harry Potter and the Goblet of Fire
Harry Potter and the Order of the Phoenix
Harry Potter and the Half-Blood Prince
Harry Potter and the Deathly Hallows Part I
Harry Potter and the Deathly Hallows Part II

After reading each book and viewing each film, students will participate in group discussion to analyze details of the books vs. the films. Students' discussion may include which source was a better representation of the material, what was left out from the film and why, etc. Students will also have access to internet resources such as www.pottermore.com to enhance the discussion.

Leadership

Grades 9 - 12

2 Semesters

Student leadership skills will be explored and developed through theory, practice, and application. This course will emphasize critical thinking, collaboration, communication, reflection, creativity, goal setting, organization, along with the many other skills it takes to be a good leader both in your school and community. Working in conjunction with John Glenn Student Senate, this course will build your leadership skills through in class activities, planning for school and community events, individual projects/goals, and the learning and practicing of leadership as a group and as individuals.

Modern American Warfare

Open to Grades 9-12
Semesters

1 - 2

This class will take an in-depth look at American conflicts and world events from the end of WWII to the present crisis in Syria. We will start by exploring the Cold War which will include American involvement in the Korean War, Bay of Pigs, Cuban Missile Crisis, and the Vietnam War. From there we will move into the Gulf War and events in Bosnia that will push us toward the events of September 11, 2001. Once we evaluate the events of September 11th, we will try and ascertain the extent to which our world has changed in regard to terrorism, international travel and relations and where we are headed in the future. This class is designed to create a more involved and informed student citizen as they segway from high school to college and the real world.

Process/Competitive Theatre

Open to Grades 9 - 12

2 Semesters

The purpose of this performance class is to acquaint students to the competitive theatre events and allow them opportunities to read, analyze, rehearse, perform and respond through peer criticism and teacher evaluation.

1. The various types of the competitive Thespian and Michigan Interscholastics Forensics Association events through classroom participation and performance. Students will learn the fourteen different types of forensics events within the classroom setting and then apply those concepts in tournament competition throughout the year. Students will be required to do literary and original research, written analysis, rehearsal and performance.
2. The exploration of the Michigan Educational Theatre Association Thespian Festival through research, preparation, and rehearsal for: performances, workshops, individual performance, technical theatre, film-making events, scholarship auditions, main stage performances, and interviews by college representatives throughout Michigan and beyond.
3. The Michigan Interscholastics Forensics Association Theatre competition where students will participate in Main Stage or Studio Competitions. This class will explore play production in depth through application and public performance. Students will become skilled in all aspects of theatre including: performance, set **design, lighting and sound design, costuming, make-up, properties, publicity and management.**

This class will give students the opportunity to:

1. Develop efficient research skills through effective use of the media center by finding materials for competition.
2. Demonstrate an understanding of the fourteen forensics events.
3. Make sound arguments using logic and reasoning needed for the public speaking events.
4. Edit and cut dramatic pieces efficiently and effectively to maintain a coherent storyline within time limits.
5. Demonstrate organization and signposting skills for public speaking.
6. Adapt delivery style after observing and analyzing judge feedback and response.
7. Develop a working knowledge of current affairs for public speaking.
8. Keep a weekly organized portfolio of materials, activities and peer critiques and performances.
9. Keep an open mind to peer and instructor constructive criticism.'
10. Develop communication skills which emphasize fluency, persuasion and dramatic intent.

Prerequisites: Students should intend to participate in the MIFA Theatre competition (One-Acts), MIFA Forensics Competition, National Thespians Competition and the National Forensics League competition. They do not need to have previous experience to participate in this class.

SAT Prep

Open to Grade 11

2 Semesters

This junior level course will primarily focus on preparing students for the SAT. Students will spend the first month learning about the test and different strategies to help them prepare. Once students take the PSAT in early October, the course will be individually tailored to each student using Khan Academy. PSAT results are uploaded for each student who has a Khan Academy account. All students who take this course will have one. Students may work on ELA and math through Khan Academy. We will also take practice tests along the way, with the practice focus being in the area of ELA Reading and Writing.

Prerequisite: Students must demonstrate an interest in SAT preparation.

Seminar

Open to Grades 9 - 12

1 - 2 Semesters

Seminar will provide students the opportunity to complete homework assignments; projects; make-up tests/quizzes etc. Students may receive extra academic support or may visit another teacher who is teaching Seminar during same Flex Block with the permission of receiving teacher.

Prerequisite: None

Strength Flex

Open to Grades 9 - 11

1 – 2 Semesters

This course is designed to improve the athlete's knowledge and physical capabilities. Specific drills, concepts, weight training, speed training, core training, conditioning, and other sports/activities will be used to lead to a healthier lifestyle and increase speed, endurance, and strength.

Prerequisites: Athletes Given Priority and Must Have 1 Letter of Recommendation

US History through Film

Open to Grades 9-12

1 -2 Semesters

US History through Film will focus on United States History from colonialism through current day. The different time periods will be depicted through films. In the class we will watch historical films and analyze them for historical accuracy and compare and contrast them against the actual events. We will focus on the techniques used in the movies and explain reasons why the filmmakers took liberties with the historical fact. Some examples of possible films would be (These are possible films that may or may

not be shown, the films may vary year to year, these are only possibilities to give an idea. Some of the selections may not be shown in their entirety but only portions.):

- The Patriot
- Episodes from the Mini-Series John Adams
- Amistad
- Glory
- Lincoln
- Dances With Wolves
- Episodes from the Mini-Series Roots
- Rough Riders
- Iron-Jawed Angels
- The Untouchables
- Flyboys
- Inherit the Wind
- Eight Men Out
- Bonnie and Clyde
- The Grapes of Wrath
- Patton
- The Longest Day
- When Trumpets Fade
- A League of Their Own
- Good Night and Good Luck
- 42
- Quiz Show
- Selma
- Mississippi Burning
- Bridge of Spies
- Apollo 13
- Episodes from the Mini-Series From Earth to the Moon
- Thirteen Days
- We Were Soldiers
- All The President's Men
- Black Hawk Down
- World Trade Center

Prerequisites: Students must obtain a signed permission slip from their guardian before gaining admittance into the class. Some of the movies may depict violence or have adult language and themes.

Work-Based Learning

Work-Based Learning

Open to Grades 11 - 12

1 - 2 Semesters

Work-Based Learning is a school-to-work program that involves the schools, students, parents/guardians, and the business community. It matches a student's class work and career interests with work-site based learning opportunities. The Work-Based Learning Program is not a job placement service; it is an enrollment program which enables students to receive training/career exploration and supervised work experience under paid/unpaid employment conditions, while also continuing their academic studies.

Dual Enrollment

Dual Enrollment

Open to Grades 11-12 (limited basis to 10th graders)

1 - 2 Semesters

An option for eligible students, which provides school district payment for tuition and books based on state portions of the district's foundation allowance. Students are responsible for their own transportation.

Dual Enrollment allows students the opportunity to earn college credit while attending high school.

Note: Not all colleges/universities accept dual enrollment credit. Parents/students should check with colleges they might want to attend to determine the status of dual enrollment classes.